

## MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:  
MONTH YEAR  
January 2017

TO: Hydrologic Information Center, W/OS31  
NOAA's National Weather Service  
1325 East West Highway  
Silver Spring, MD 20910-3283

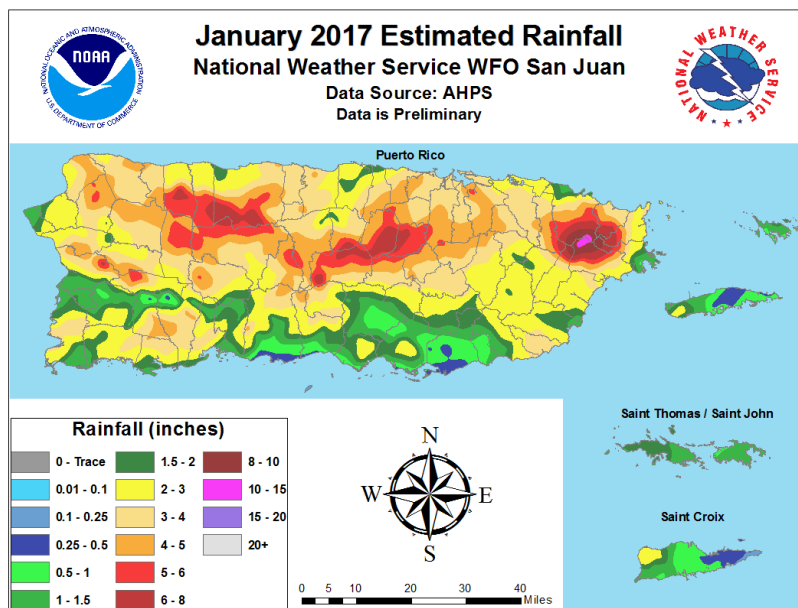
SIGNATURE  
Odalys Martinez – FIC

DATE  
02/15/2017

*When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).*

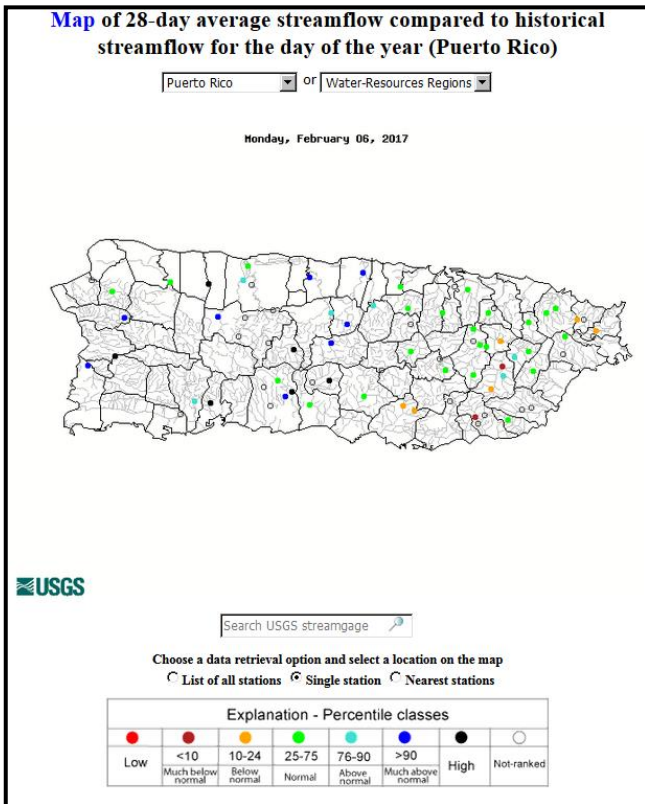
☐ An X inside this box indicates that no flooding occurred within this hydrologic service area.

**Summary:** A seasonable weather pattern prevailed across the islands during the month. The only significant weather feature observed was the passage of a cold front between the 10<sup>th</sup> – 11<sup>th</sup> of the month, which caused widespread shower activity across the islands and very hazardous marine conditions. Outside of this event, most of the days featured fair weather conditions with passing trade showers affecting the islands from time to time. Based on the Cooperative Observer Network Data (COOP), 83 % of the normal rainfall was observed across PR. Preliminarily, an average rainfall total of 2.78 inches was measured, which is 0.55 inches below normal. Below normal rainfall was observed across the U.S. Virgin Islands.



**Figure 1.** Rainfall Estimates for January 2017.

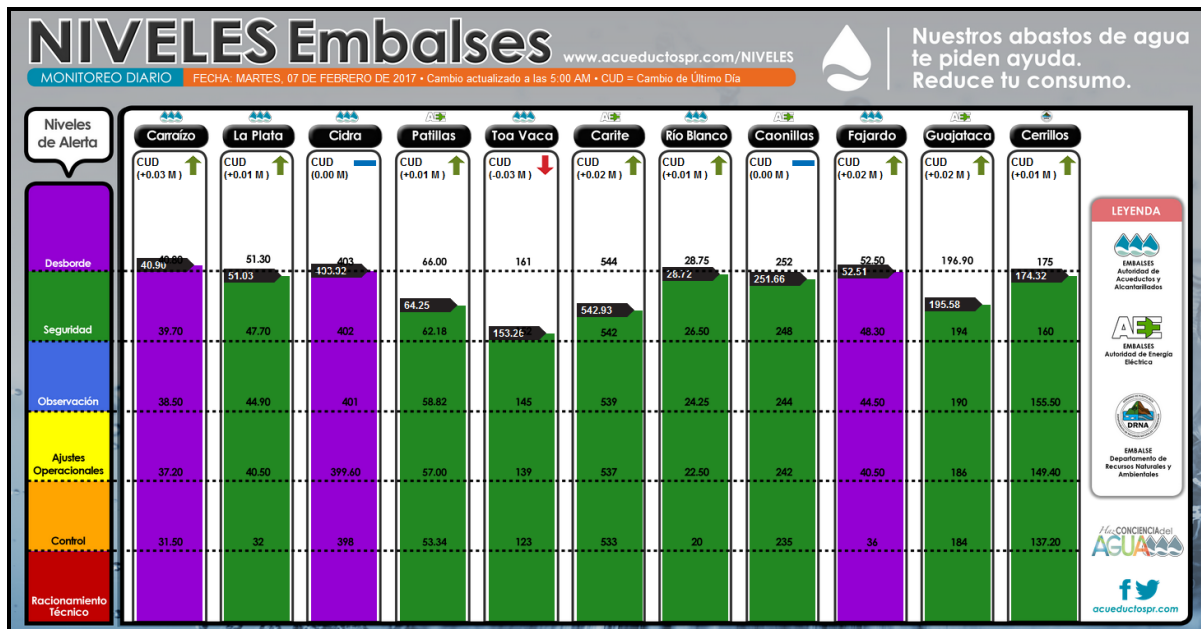
Please also see January 2017 Climate Report:  
[http://www.weather.gov/sju/climo/monthly\\_reports/2017/Jan2017.pdf](http://www.weather.gov/sju/climo/monthly_reports/2017/Jan2017.pdf)



**River and Drought Conditions:** The 28-day average streamflow from the U.S. Geological Survey (USGS) river-gauge network indicates that the majority of streamflows across the western half of Puerto Rico are running above the 76<sup>th</sup> percentile, which is above or well above the normal range. Across the eastern half of the island most of the streamflows are running between the 25<sup>th</sup> and the 75<sup>th</sup> percentile, which is within the normal range. A few outliers across southeast Puerto Rico are running below normal. There is no drought conditions observed across the area.

**Figure 2.** 28-day average stream flow through February 6<sup>th</sup>, 2017.

**Water Supply:** Lake levels at water supply reservoirs are in optimum conditions. However aquifer and ground water levels are descending in the Salinas area along the south coast of the island, where groundwater levels at Aguirre HW is currently below normal levels. The dry season continues across the local islands.

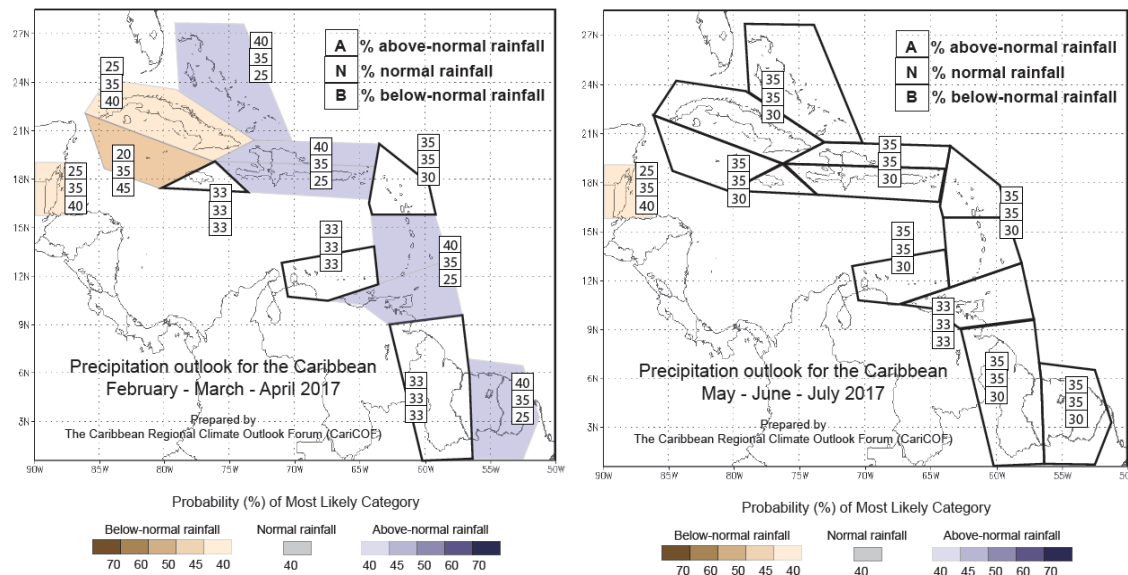


**Figure 3.** Reservoirs levels through February 7<sup>th</sup> 2016.

**Flood Conditions:** No flooding was reported during the period.

Non-Routine Hydrologic Products Issued:	Approximate number of Products for the month
Hydrologic Outlooks (SJUESFSJU)	0
Flood Watches (SJUFFASJU)	0
Flood Warnings (SJUFLWSJU)	0
Flash Flood Warnings (SJUFFWSJU)	0
Flash Flood Statements (SJUFFSSJU)	0
Urban/Small Stream Flood Advisories (SJUFLSSJU)	0

### General Hydrology Information:



A transition to ENSO – neutral is expected to occur by February 2017, with ENSO – neutral then continuing through the first half of 2017. The Tropical North Atlantic Sea Surface Temperatures are currently slightly above average throughout the Caribbean Islands. Small positive SST anomalies are expected to persist throughout the region and portions of the Tropical North Atlantic during Feb-Mar-Apr, but mostly fade by May-Jun-Jul. Under this evolving pattern, there is a higher chance to observe normal to above normal rainfall Feb-Mar-Apr with equal chances for May-Jun-Jul. Therefore, potential for flooding will remain near normal.

More Info: <http://rcc.cimh.edu.bb/long-range-forecasts/caricof-climate-outlooks/>